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Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38117 September 28, 1973

Discussion of Test Results

Short staple samples tested in the Cotton Division laboratories of the Agricultural Marketing Service to date show average fibrograph length to be longer than a year ago. Fiber uniformity is higher. Cottons are weaker in fiber strength at both zero and 1/8" gage tests. Shirley analyzer nonlint content and picker and card waste are higher than last season. Yarns spun from these samples show lower yarn appearance grades. Average spinning potential yarn number is lower than a year ago.

Southwestern medium staple samples show average fiber length to be longer compared with this period last year. Fiber strength is weaker at both zero and 1/8" gage than a year ago. Shirley analyzer nonlint content and picker and card waste are lower this year. Yarns spun from these samples are weaker and show lower appearance grades than a year ago. Yarn imperfections are higher than last season.

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This is the third of a series of reports of fiber and processing test results from the 1973 cotton crop. Subsequent reports in this series will follow at approximately two-week intervals during the harvesting season, and will be summarized in a comprehensive report at the end of the season. This series will present data on the same subject as "Summary of Cotton Fiber and Processing Test Results, Crop of 1972", May 1973. These reports are published by the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, Memphis, Tennessee.

Changes or additions to mailing lists should be sent to:

Head, Standardization Section Cotton Division, AMS, USDA P. O. Box 17723 Memphis, Tennessee 38117

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ton: Averages of fiber and processing tests from selected gin points in the United States through September 21, 1973 $1/$	results	Spin.	Potent.	Yarn No.	74 75 75 75 75 75 75 75 75 75 75 75 75 75	63			3
		cy.	Imperf- ections	No. Yarn	25	22 24			2
	ng test	n quality	ppear- ance	Index	116	121 96			5
	Processing	Yarn	Skein str.	Lbs. 22s	まま	103			4(22s)
		ر م م	waste	Pet.	6.0	6. 1. d.			0.5
	Fiber test results	۷	nonlint	Pct.	£3.0	0 n			0.5
		strength	1/8" gage	G/tex	21	22 21			7
		Fiber	Zero gage	Mpsi	83 75	80			CU
		Mike fine-	ness	Rdg.	4.4	44	•		0.2
		graph	50/2.5 unif.	Pct.	24 44	46 45			2
		Fibrograph	2.5% span	Inches	96.0	1.07			0.02
	Lots			No.	ω m	23			
Table 1Cotton:	Staple group Area, and Crop year				Short Staple: Southwest: 1972 1973	Medium Staple: Southwest: 1972 1973			Significant dif- ference $\frac{2}{}$

Based on a limited number of samples of modal quality Minimum differences considered to be significant for comparisons in this table. These guides are based upon averages of a number of lots and are not applicable to individual samples.

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Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1973

	Spin. Poten-	tial	No No		40	41
	Imprfect'ns Spin.		No No			
arns	Imprf	8s or 74 tx	일		59	23
Carded Y	Appearance Index	22sor 27 tx	No		6.6 130 110 29 24	7.1 120 110 23 18
ults -	Appea	8s or 74 tx	욊		130	120
Processing Test Results - Carded Yarns	Elongation	8s or 22s or 8s or 22s or 8s or 22sor 8s or 22sor 7t tx 27 tx 7t tx 27 tx 7t tx 27 tx 7t tx 27 tx	Pct Pct		9.9	
ssing	Elone	8s or 74 tx	Pct		8.1	8.2
Proce	gth	22s or 27 tx	Tps		90 PERCENT 87 8.	95 PERCENT 102 8.
	Strength	8s or 74 tx	SqT		90 PERCENT 282 87 8.1	95 PERCENT 4 3 7.3 325 102 8.2
	Color Raw Stock P & C	Waste	Pct		7.5	7.3
	Color w Stock	Yel	8		5 3 7.5	m
	1	Gra	Pct No		ī	÷
	Elon- S.A.	lint	Pet		L.+	4-0
lts	Elon-	1/8"	Pet		7.5	LX 571 0.3 4.0
Test Results	Fiber Strength	Zero 1/8" Gage Gage	G/tex		LANKAKT 011 18 7.5	LANKAKT LX 571 22 0.3
Fiber Test	Fi	Zero Gage	Mpsi		7.0	84
	Mike		Rdg		4.3	46 4.5
	tal graph	Unif	Pct		48	
	Digital Fibrograph	2.5% span	트 타		52 31 0.97	51 33 1.05
		Stple	32s	AREA	31	33
Area,	ber			AF	52	
Production Area,	& Sample Number	No Grade Name & Code		SOUTHWEST	SOUTH TEXAS TAFT 3 LM LT SP	CENTRAL TEXAS TAYLCR 1 LM
				-,		_

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Processing Test Results - Carded Yarns	Spin. Poten- tial		읾		9	26	49	58	59
	Imprfect'ns	50s or 12 tx	욁		c	91	13	15	17
	Imprfe	22s or 50s or 27 tx 12 tx	읾		76	20	17	20	20
	ance	0s or 2 tx	읽		9	80	90	80	80
	Appearance Index	22s or 50s or 22s or 50s or 22s or 50s or 22s or 50s or 22 or 50s or 27 tx 12 tx 27 tx 12 tx	Lbs Lbs Pct Pct No No		001	906	110	100	100
	tion	50s or 12 tx	Pct		0	3.8	3.8	1.4	4.6
	Elongation	22s or 27 tx	Pct		ENT 5 5	5.1	5.3	ENT 6.5	6.3
	ngth	50s or 12 tx	Tps		95 PERCENT	31	PERCENT 32 5.	75 PERCENT 6 32 6.	95 PERCENT 3 35 6.
	Strength	22s or 27 tx	Lbs		95	100	100	96	95
	Color Raw Stock P & C	Waste	Pct		4	5.8	6.1	5.6	4.2
	Color W Stock	Yel	임 임		14	14	4	m	r)
		Gra	N		^	1 ~1	m	4	-
	S.A.	Non- Lint	Pet			4.7	4.0	7.7	1.8
ts	Elon-	gat'n 1/8"	Pct		STONEVILLE 7A	9.9	1033	5P37 6.1	TONE VILLE 215 22 6.6 1.8
Fiber Test Results	er gth	1/8" Gage	G/tex		STONEVI	22	TPSA 19	TAMLUT SP37	STONE VI 22
liber Te	Fiber Strength	Zero Gage	Mpsi		4	80	82	7.1	11
Ĩ [±] 4		Mike	Rdg		0	5.0	4.4	4.0	4.6
	al graph	Unif.	Pct		17	45	94	4	7.
	Digital Fibrograph	Stple 2.5% span	디		01.7	1.09	1.10	1.06	1.09
		Stple	32s	AREA	3,6	34	3,	33	34
Area,	ber			Ø	17	41	45	4.2	31
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTPWEST	SOUTH TEXAS PRCGRESSC 2 SIM	3 SLM	SAN JUAN 3 SLM LT SP	3 SLM LT SP 42 33	CENTRAL TEXAS BATESVILLE I MID

